Performance Data Sheet

RKA5512YXD

General Information

Model	RKA5512YXD	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3200	3180					
	Watts	564	593					
	Amps	2.78	2.90					
	Lb/h	48.1	47.1					
-10	Btu/h	3750	3660	3560				
	Watts	581	612	645				
	Amps	2.85	2.99	3.13				
	Lb/h	54.8	53.7	52.6				
-5	Btu/h	4390	4230	4070	3910			
	Watts	599	633	668	704			
	Amps	2.91	3.07	3.23	3.40			
	Lb/h	62.6	61.3	60.0	58.7			
0	Btu/h	5120	4890	4660	4430	4200		
	Watts	618	656	693	732	771		
	Amps	2.97	3.14	3.32	3.51	3.70		
	Lb/h	71.4	70.0	68.6	67.1	65.6		
5	Btu/h	5940	5640	5340	5050	4750		
	Watts	637	678	719	761	803		
	Amps	3.01	3.21	3.41	3.61	3.82		
	Lb/h	81.3	79.7	78.2	76.5	74.9		
10	Btu/h	6860	6490	6120	5760	5390	5020	4650
	Watts	656	700	745	790	835	881	927
	Amps	3.05	3.27	3.49	3.71	3.94	4.17	4.40
	Lb/h	92.2	90.5	88.8	87.0	85.2	83.4	81.5
15	Btu/h	7870	7430	6990	6560	6120	5690	5250
	Watts	672	721	770	818	868	917	967
	Amps	3.09	3.32	3.56	3.80	4.05	4.30	4.55
	Lb/h	104	102	100	98.6	96.6	94.6	92.6
20	Btu/h	8980	8470	7960	7460	6950	6440	5940
	Watts	687	740	793	846	899	953	1010
	Amps	3.11	3.37	3.63	3.89	4.15	4.42	4.69
	Lb/h	117	115	113	111	109	107	105

25	Btu/h	10200	9610	9030	8450	7870	7300	6720
	Watts	698	756	814	872	930	987	1050
	Amps	3.13	3.41	3.68	3.97	4.25	4.53	4.82
	Lb/h	131	129	127	125	123	120	118
30	Btu/h	11500	10800	10200	9540	8890	8240	7600
	Watts	705	769	832	895	958	1020	1080
	Amps	3.14	3.44	3.74	4.04	4.34	4.64	4.95
	Lb/h	147	144	142	140	137	135	132
35	Btu/h	12900	12200	11500	10700	10000	9290	8570
	Watts	709	778	847	915	983	1050	1120
	Amps	3.14	3.46	3.78	4.10	4.42	4.75	5.08
	Lb/h	163	160	158	155	153	150	147
40	Btu/h	14400	13600	12800	12000	11200	10400	9640
	Watts	706	782	857	931	1000	1080	1150
	Amps	3.14	3.48	3.82	4.16	4.50	4.84	5.19
	Lb/h	180	178	175	172	169	167	164
45	Btu/h	16000	15200	14300	13400	12500	11700	10800
	Watts	698	780	862	942	1020	1100	1180
	Amps	3.13	3.49	3.84	4.21	4.57	4.93	5.30
	Lb/h	199	196	193	190	187	184	181
50	Btu/h	17700	16800	15900	14900	14000	13000	12100
	Watts	684	773	861	948	1030	1120	1200
	Amps	3.11	3.49	3.87	4.25	4.63	5.02	5.40
	Lb/h	218	215	212	209	206	203	200
55	Btu/h	19600	18500	17500	16500	15500	14500	13500
	Watts	661	758	853	947	1040	1130	1220
	Amps	3.08	3.48	3.88	4.28	4.69	5.09	5.50
	Lb/h	239	236	232	229	226	223	219

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.933463E+03	3.295637E+02	1.578743E+00	8.197681E+01
C2	2.665605E+02	-2.494065E+00	-2.183749E-02	2.121845E+00
C3	-2.271938E+01	3.613212E+00	1.741466E-02	-1.338908E-01
C4	1.967332E+00	-6.408684E-02	-1.698597E-04	2.159902E-02
C5	-1.412898E+00	9.195442E-02	4.141472E-04	-3.342634E-03
C6	1.372750E-03	-1.201927E-03	-6.968107E-06	1.058352E-04
C7	1.725717E-03	-9.826779E-04	-8.030184E-08	5.051079E-06
C8	-1.311308E-03	7.834878E-04	3.280801E-07	-6.426432E-06
C9	2.454357E-04	-1.611474E-04	-1.679091E-07	2.363457E-06
C10	-1.530564E-05	1.448962E-05	7.361555E-08	-1.066696E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature